

Exercise 6 –Single offset rating (Cartecay River)

- Use the measurements shown in the table below to develop a rating that will pass within reasonable limits of all measurements above a gage height of 4.9 feet. This means you will not use measurements 374 or 375—they are associated with another control. In completing this exercise, you can:
 1. Use the attached graph paper to plot the measurements, and then
 2. Use Johnson’s method to determine an offset and re-plot the rating using this offset. (Hint: You may want to use an average of measurements number 367 and 368 for G2 and Q2 and use measurement number 183 for G1 and Q1)

Alternatively, you can:

3. Enter the measurements into [BARC](#) and use BARC to plot the rating, and
4. Find the best offset by trial and error by trying different offsets within the BARC spreadsheet.

Measurement number	Gage height, in feet	Discharge, in cfs
366	5.11	250
367	4.89	174
368	4.95	187
369	6.03	741
370	5.84	605
371	5.61	478
372	5.16	272
373	5.15	268
374	4.64	123
375	4.58	117
183	9.14	3890
201	6.57	1170
260	6.5	1060
313	7.79	2380
382	7.98	2470
12	8.8	3500

